

Electronics for Positive Displacement Flow Meter

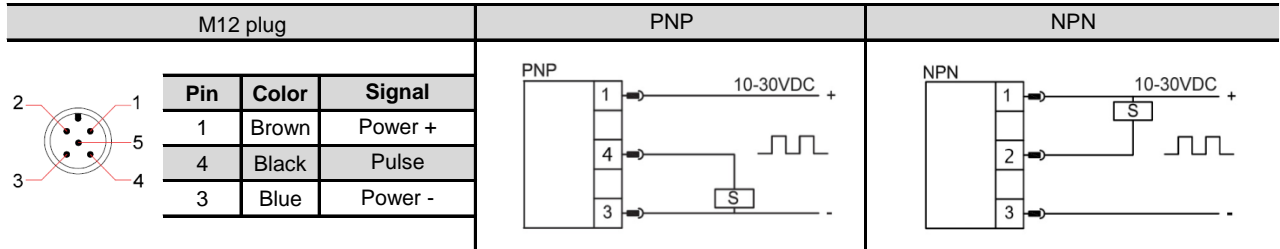
S2000D Series - Dual-sensor

1). Single Pulse Output with 4 X Pulse Resolution



Specifications	
Power supply	10...30VDC
No load current	<9mA
Output	Push-Pull (PNP / NPN)
Reverse polarity protection	Yes
Short circuit protection	Yes
Probe operating temperature	-40...212°F (Optional -40...302°F / -40...446°F) -40...100°C (Optional -40...150°C / -40...230°C)
Ambient temperature	-40...185°F (-40...85°C)
Electrical connection	M12 x 1 plug
Protection class	M12 x 1 plug: IP67

Wiring



2). Dual-pulse Output (Quadrature signal with 90° phase shift)



Specifications

Power supply	10...30VDC
No load current	<9mA
Output	Push-Pull (PNP / NPN)
Reverse polarity protection	Yes
Short circuit protection	Yes
Probe operating temperature	-40...212°F (Optional -40...302°F / -40...446°F) -40...100°C (Optional -40...150°C / -40...230°C)
Ambient temperature	-40...185°F (-40...85°C)
Electrical connection	M12 x 1 plug
Protection class	M12 x 1 plug: IP67

Wiring

M12 plug	PNP	NPN															
<table border="1"> <thead> <tr> <th>Pin</th> <th>Color</th> <th>Signal</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Brown</td> <td>Power +</td> </tr> <tr> <td>2</td> <td>White</td> <td>Pulse</td> </tr> <tr> <td>4</td> <td>Black</td> <td>Pulse</td> </tr> <tr> <td>3</td> <td>Blue</td> <td>Power -</td> </tr> </tbody> </table>	Pin	Color	Signal	1	Brown	Power +	2	White	Pulse	4	Black	Pulse	3	Blue	Power -		
Pin	Color	Signal															
1	Brown	Power +															
2	White	Pulse															
4	Black	Pulse															
3	Blue	Power -															

3). 4...20mA Output with Flow Directional Detection



Specifications

Power supply	10...30VDC
No load current	<9mA
Output	4...20mA + switch signal (for flow direction)
Reverse polarity protection	Yes
Short circuit protection	Yes
Probe operating temperature	-40...212°F (Optional -40...302°F / -40...446°F) -40...100°C (Optional -40...150°C / -40...230°C)
Ambient temperature	-40...185°F (-40...85°C)
Electrical connection	M12 x 1 plug
Protection class	M12 x 1 plug: IP67

Wiring

M12 plug	PNP	NPN															
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2	White	4...20mA															
4	Black	Switch output															
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4). -10...10V Output



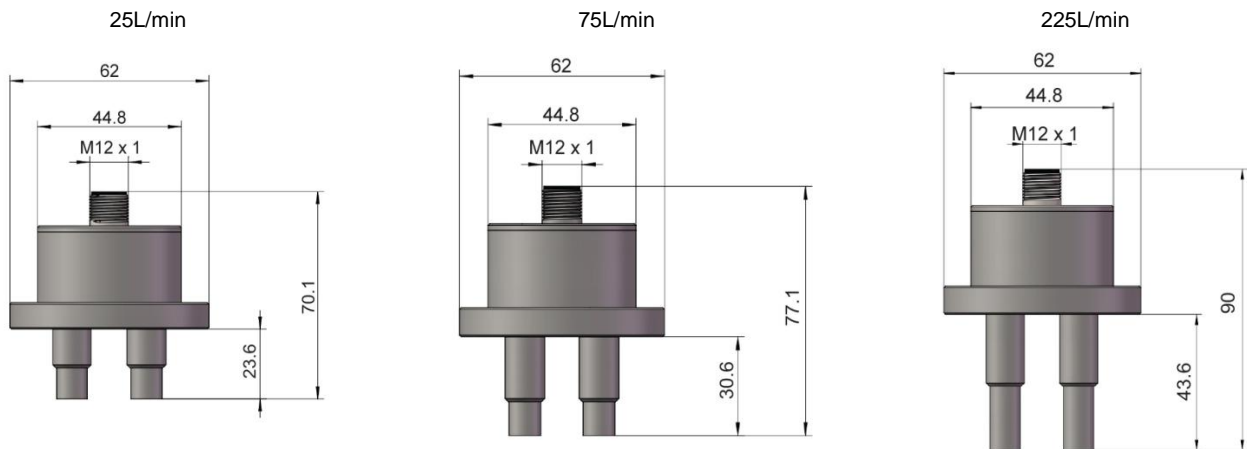
Specifications

Power supply	10...30VDC
No load current	<9mA
Output	-10...10V
Reverse polarity protection	Yes
Short circuit protection	Yes
Probe operating temperature	-40...212°F (Optional -40...302°F / -40...446°F) -40...100°C (Optional -40...150°C / -40...230°C)
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Electrical connection	M12 x 1 plug
Protection class	M12 x 1 plug: IP67

Wiring

M12 plug	-10...10V												
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Dimensions in mm



Order code**1. Model**

S2000D- Dual-sensor for positive displacement flow meter

2. Output

P1 Single pulse output with 4 x pulse resolution
P2 Dual-pulse Output
A 4...20mA with Flow Directional Detection
V -10...10V

3. Temperature

T1 -40...212°F (-40...100°C)
T2 -40...302°F (-40...150°C)
T3 -40...446°F (-40...230°C)